

Internal Seminar

Synthesis, Structure and Reactivity of Sterically Encumbered Phosphate Mono and Diester

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Lanthanide phosphates based materials have emerged as an important class of compounds in inorganic and materials chemistry owing to their applications in diverse areas such as catalysis, gas adsorption, luminescence, magnetic resonance imaging, sensors, bioprobes for immunoassays, molecular magnetism, magnetic refrigeration etc. Phosphate monoesters are nearly always results in oligomeric or polymeric metal-phosphate (including lanthanide) complexes. In view of this, bulky phosphate ester ligand can extend their efficacy in the formation of lanthanide complexes, particularly mononuclear complexes. Apart from this; we synthesized the 2,6-(diphenylmethyl)-4-iso-propyl-phenyl, (-)-menthol, (+)-menthol and (+)/(-)-menthol substituted phosphate diesters and its H-bonded dimeric structures were studied in various solvents.

Tuesday, Oct 1st 2019

11:30 AM (Tea/Coffee at 9:30 AM)

Seminar Hall, TIFR-H